

	Solar	560	0	0	0.08	3	
	Renewable(Total)	848	12	12	0.35	15	
	Total Punjab	8408	2537	2038	46.54	1939	
Haryana	Panipat TPS (2*210+2*250)	920	0	0	0.00	0	
	DCRTPP (Yamuna nagar) (2*300)	600	549	465	11.27	470	
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0	
	RGTPP (khedar) (IPP) (2*600)	1200	514	499	10.73	447	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajar(CLP) (2*660)	1320	600	489	10.72	447	
	Thermal (Total)	4497	1663	1453	32.72	1363	
	Total Hydro	62	32	29	0.75	31	
	Wind Power	0	0	0	0.00	0	
	Biomass	40	0	0	0.00	0	
	Solar	0	0	0	0.00	0	
	Renewable(Total)	40	0	0	0.00	0	
	Total Haryana	4599	1695	1482	33.47	1395	
	Rajasthan	kota TPS (2*110+2*195+3*210)	1240	179	153	4.04	168
suratgarh TPS (6*250)		1500	207	179	4.88	203	
Chabra TPS (4*250)		1000	934	1041	24.05	1002	
Chabra TPS (1*660)		660	0	0	0.00	0	
Dholpur GPS (3*110)		330	0	0	0.00	0	
Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)		271	175	204	4.84	202	
RAPS A (NPC) (1*100+1*200)		300	190	190	4.23	176	
Barsingar (NLC) (2*125)		250	114	112	2.51	105	
Giral LTPS (2*125)		250	0	0	0.00	0	
Rajwst LTPS (IPP) (8*135)		1080	910	835	21.63	901	
VS LIGNITE LTPS (IPP) (1*135)		135	0	0	0.00	0	
Kalisindh Thermal(2*600)		1200	478	929	19.77	824	
Kawai(Adani) (2*660)		1320	616	613	14.59	608	
Thermal (Total)		9536	3803	4256	100.53	4189	
Total Hydro		550	0	20	0.13	5	
Wind power		4017	525	740	16.80	700	
Biomass		99	27	27	0.66	27	
Solar		1295	1	0	3.15	131	
Renewable/Others (Total)		5411	553	767	20.61	859	
Total Rajasthan		15497	4356	5043	121.27	5053	
UP		Anpara TPS (3*210+2*500)	1630	924	755	20.71	863
		Obra TPS (2*50+2*94+5*200)	1194	612	637	14.01	584
		Paricha TPS (2*110+2*220+2*250)	1160	891	887	20.40	850
		Panki TPS (2*105)	210	153	0	2.46	102
	Harduaganj TPS (1*60+1*105+2*250)	665	535	465	11.72	488	
	Tanda TPS (NTPC) (4*110)	440	295	289	6.68	278	
	Roza TPS (IPP) (4*300)	1200	1091	1116	25.24	1052	
	Anpara-C (IPP) (2*600)	1200	776	783	18.35	765	
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	393	123	7.08	295	
	Anpara-D(2*500)	1000	406	789	14.03	585	
	Lalitpur TPS(3*660)	1980	590	610	13.57	566	
	Bara(2*660)	1320	552	570	13.03	543	
	Thermal (Total)	12449	7218	7024	167.26	6969	
	Vishnuparyag HPS (IPP)(4*110)	440	306	271	6.41	267	
	Alaknanda(4*82.5)	330	154	168	3.64	152	
	Other Hydro	527	139	178	2.40	100	
	Cogeneration	981	600	600	14.40	600	
	Wind Power	0	0	0	0.00	0	
	Biomass	26	0	0	0.00	0	
	Solar	102	0	0	0.00	0	
	Renewable(Total)	128	0	0	0.00	0	
Total UP	14855	8417	8241	194.11	8088		
Uttarakhand	Other Hydro	1250	712	682	16.77	699	
	Total Gas	225	266	242	6.12	255	
	Wind Power	0	0	0	0.00	0	
	Biomass	127	0	0	0.00	0	
	Solar	20	0	0	0.46	19	
	Small Hydro (< 25 MW)	180	0	0	0.00	0	
	Renewable(Total)	327	0	0	0.46	19	
	Total Uttarakhand	1802	978	924	23.36	973	
	Delhi	Raighat TPS (2*67.5)	135	0	0	-0.01	0
		Delhi Gas Turbine (6x30 + 3x34)	282	32	33	0.82	34
Pragati Gas Turbine (2x104+ 1x122)		330	159	155	3.68	153	
Rithala GPS (3*36)		95	0	0	0.00	0	
Bawana GPS (4*216+2*253)		1370	250	250	6.01	251	
Badarpur TPS (NTPC) (3*95+2*210)		705	340	340	7.88	329	
Thermal (Total)		2917	781	778	18.39	766	
Wind Power		0	0	0	0.00	0	
Biomass		16	0	0	0.00	0	
Solar		2	0	0	0.00	0	
Renewable(Total)		18	0	0	0.00	0	
Total Delhi	2935	781	778	18.39	766		
HP	Baspa HPS (IPP) (3*100)	300	328	219	5.48	228	
	Malana HPS (IPP) (2*43)	86	89	95	1.43	60	
	Other Hydro (>25MW)	372	319	293	7.10	296	
	Wind Power	0	0	0	0.00	0	
	Biomass	0	0	0	0.00	0	
	Solar	0	0	0	0.00	0	
	Small Hydro (< 25 MW)	486	246	227	5.37	224	
	Renewable(Total)	486	246	227	5.37	224	
	Total HP	1244	981	835	19.37	807	
	J & K	Baglihar HPS (IPP) (3*150+3*150)	900	741	743	16.87	703
Other Hydro/IPP(including 98 MW Small Hydro)		308	94	66	1.84	77	
Gas/Diesel/Others		190	0	0	0.00	0	
Wind Power		0	0	0	0.00	0	
Biomass		0	0	0	0.00	0	
Solar		0	0	0	0.00	0	
Small Hydro (< 25 MW)Included in Other Hydro Above		98	0	0	0.00	0	
Renewable(Total)		98	0	0	0.00	0	
Total J & K		1398	835	809	19	779	
Total State Control Area Generation	50738	20580	20149	475.21	19800		
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		10315	9245.4	178.28	7428		
Total Regional Availability(Gross)	76635	49484	45973	1042.75	43448		
IV. Total Hydro Generation:							
Regional Entities Hydro	12234	9911	8000	204.44	8518		
State Control Area Hydro	7163	3823	3294	72.21	3283		
Total Regional Hydro	19397	13735	11294	276.65	11801		
V. Total Renewable Generation:							
Regional Entities Renewable	30	0	0	0.08	3		
State Control Area Renewable	7356	810	1006	26.79	1116		

Total Regional Renewable	7386	810	1006	26.87	1120
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VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-200	-250	250	250	0.90	4.60	-3.70
765 KV Gwalior-Agra (D/C)	3350	2737	3350	0	54.89	0.00	54.89
400 KV Zerda-Kankroli	52	-117	52	234	0.00	3.01	-3.01
400 KV Zerda-Bhinmal	37	-80	77	217	0.00	1.96	-1.96
220 KV Auraiya-Malanpur	7	0	0	50	0.00	0.39	-0.39
220 KV Badod-Kota/Morak	127	75	127	0	0.00	0.55	-0.55
Mundra-Mohindergarh(HVDC Bipole)	1499	2499	2507	0	44.82	0.00	44.82
400 KV RAPPC-Sujalpur	443	360	443	0	7.55	0.00	7.55
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Phagi-Gwalior (D/C)	1440	1026	1440	0	22.71	0.00	22.71
+/- 800 kV HVDC Champa-Kurushetra	1500	1000	1500	0	26.50	0	26.50
Sub Total WR	8255	7250			157.39	10.51	146.88
400 kV Sasaram - Varanasi	120	134	146	0	3.29	0.00	3.29
400 kV Sasaram - Allahabad	25	10	25	5	0.17	0.00	0.17
400 KV MZP- GKP (D/C)	171	218	304	278	0.90	0.00	0.90
400 KV Patna-Balia(D/C) X 2	731	766	775	0	16.27	0.00	16.27
400 KV B'Sharif-Balia (D/C)	191	153	191	82	1.90	0.00	1.90
765 KV Gaya-Balia	429	292	429	0	5.65	0.00	5.65
765 KV Gaya-Varanasi (D/C)	554	375	554	0	6.17	0.00	6.17
220 KV Pusauli-Sahupuri	225	236	241	0	4.99	0.00	4.99
132 KV K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
132 KV Son Ngr-Rihand	-23	-26	0	-30	0.00	0.54	-0.54
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	-184	-187	0	261	0.00	4.30	-4.30
400 KV Barh -GKP (D/C)	556	524	556	0	11.28	0.00	11.28
400 kV B'Sharif - Varanasi (D/C)	-35	0	35	140	0.00	1.31	-1.31
+/- 800 KV HVDC Alipurduar-Agra	0	0	0	0	0.00	0.00	0.00
Sub Total ER	2760	2495			50.63	6.15	44.47
+/- 800 KV HVDC BiswanathCharialli-Agra	-700	-500	0	700.00	0.00	13.06	-13.06
Sub Total NER	-700	-500			0.00	13.06	-13.06
Total IR Exch	10315	9245			208.01	29.73	178.28

VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
45.60	0.53	46.14	-2.49	2.12	-7.55	5.85	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Incls Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
36.09	147.82	183.91	31.41	146.88	178.28	-4.69	-0.94	-5.63

VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-27	-23	30	0	1	0	0.66

VII. Frequency Profile <----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.00	0.57	9.63	59.39	76.97	11.61	1.85	0.00	0.00

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (% of Time)
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index		(Hz)	(Hz)	
50.18	18.01	49.74	0.08	49.98	0.042	0.062	50.08	49.88	23.03

VIII(A). Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	410	11:41	400	19:08	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	418	05:03	385	19:09	0.0	1.5	0.0	0.0	0.0
Bareilly(PG)400kV	400	419	05:04	386	19:09	0.0	2.0	0.0	0.0	0.0
Kanpur	400	417	13:03	391	19:10	0.0	0.0	0.0	0.0	0.0
Dadri	400	419	06:57	399	19:23	0.0	0.0	0.0	0.0	0.0
Ballabgarh	400	418	05:04	396	19:10	0.0	0.0	0.0	0.0	0.0
Bawana	400	417	05:05	395	19:22	0.0	0.0	0.0	0.0	0.0
Bassi	400	416	05:01	392	22:10	0.0	0.0	0.0	0.0	0.0
Hissar	400	414	07:01	393	22:20	0.0	0.0	0.0	0.0	0.0
Moga	400	417	12:59	401	19:21	0.0	0.0	0.0	0.0	0.0
Abdullapur	400	415	06:02	398	19:11	0.0	0.0	0.0	0.0	0.0
Nalagarh	400	415	06:07	403	19:10	0.0	0.0	0.0	0.0	0.0
Kishenpur	400	410	12:59	399	20:08	0.0	0.0	0.0	0.0	0.0
Wagoora	400	403	03:26	382	06:52	0.0	25.6	0.0	0.0	0.0
Amritsar	400	419	06:01	406	19:23	0.0	0.0	0.0	0.0	0.0
Kashipur	400	0	00:00	0	00:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	405	00:00	403	23:10	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	419	05:07	387	19:10	0.0	1.9	0.0	0.0	0.0

VIII(B). Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	780	12:02	734	19:25	0.0	2.3	0.0	0.0	0.0
Balia	765	801	05:03	738	19:09	0.0	1.2	0.8	0.0	0.8
Moga	765	794	05:05	761	19:25	0.0	0.0	0.0	0.0	0.0
Agra	765	794	13:00	744	19:23	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	799	06:30	776	00:00	0.0	0.0	0.0	0.0	0.0
Unnao	765	781	05:30	728	19:08	0.0	4.9	0.0	0.0	0.0
Lucknow	765	806	05:18	735	19:09	0.0	1.9	2.4	0.0	2.4
Meerut	765	803	05:04	757	19:10	0.0	0.0	3.4	0.0	3.4
Jhatikara	765	801	06:59	756	19:25	0.0	0.0	0.0	0.0	0.0
Bareilly 765 kV	765	809	05:07	738	19:08	0.0	1.0	8.4	0.0	8.4
Anta	765	794	05:03	765	15:52	0.0	0.0	0.0	0.0	0.0
Phagi	765	0	00:00	0	00:00	100.0	100.0	0.0	0.0	100.0

Note : '0' in Max / Min Col -> Telemetry Outage

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	466.97	221.60	478.25	420.92	480.93	272.07

Pong	426.72	384.05	397.06	162.91	395.15	126.34	70.57	139.77
Tehri	829.79	740.04	756.15	92.19	745.00	23.98	146.58	171.00
Koteshwar	612.50	598.50	610.74	4.95	610.75	4.95	171.00	167.15
Chamera-I	760.00	748.75	755.60	0.00	0.00	0.00	424.14	359.05
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Saagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	514.27	1.77	496.65	0.69	317.92	56.76

* NA: Not Available

X(A). Short-Term Open Access Details:

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (20:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	347	248	0	123	546	0	2.00	9.28	11.29
Delhi	-265	37	0	-196	114	0	-4.25	4.16	-0.09
Haryana	132	298	0	132	239	0	0.77	2.06	2.83
HP	-622	-400	0	-345	-1005	0	-8.50	-15.06	-23.56
J&K	-145	-453	0	-145	-467	0	-3.52	-8.99	-12.51
CHD	0	0	0	0	0	0	0.00	0.45	0.45
Rajasthan	18	414	0	26	255	0	0.51	7.72	8.24
UP	798	1391	0	1035	1878	0	8.68	15.70	24.38
Uttarakhand	266	-151	0	136	-42	0	5.73	-3.65	2.08
Total	527	1385	0	767	1519	0	1.43	11.67	13.10

X(B). Short-Term Open Access Details:

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	347	-50	745	248	0	0
Delhi	-51	-265	492	-66	0	0
Haryana	148	-70	312	-380	0	0
HP	-40	-622	-331	-1116	0	0
J&K	-145	-162	-227	-498	0	0
CHD	0	0	59	0	0	0
Rajasthan	34	12	414	-105	0	0
UP	1035	37	1878	-68	0	0
Uttarakhand	266	136	95	-371	0	0

XI. System Reliability Indices (Violation of TTC and ATC):

(i) %age of times N-1 Criteria was violated in the inter - regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(ii) %age of times ATC violated on the inter-regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(iii) %age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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XII. Zero Crossing Violations

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	3	28
Haryana	0	12
Rajasthan	1	24
Delhi	2	22
UP	1	13
Uttarakhand	4	18
HP	5	38
J & K	3	20
Chandigarh	3	22

XIII. System Constraints:

XIV. Grid Disturbance / Any Other Significant Event:

XV. Weather Conditions For 19.04.2017 :

XVI. Synchronisation of new generating units :

1. 400/220 KV ICT-1 first time charged at Mathura(UPPCL) at 13.10 hrs on 19.04.2017

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / substation :

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data(regarding drawal, generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.